



AGENDA TITLE: Adopt Resolution Awarding the Purchase of Padmount Transformers

(\$200,330.96) (EUD)

MEETING DATE: August 1,2007

PREPARED BY Electric Utility Director

RECOMMENDED ACTION: Adopt a resolution awarding the bids for the purchase of padmount

transformers to the bidders whose proposals and equipment meet City of Lodi specifications, and whose transformers are expected to

yield the lowest life-cycle costs.

BACKGROUND INFORMATION: On May 16,2007, the City Council authorized the Electric Utility

Department (EUD) to advertise for bids as necessary to meet the EUD's needs for padmount transformers through the fiscal year.

On July 1,2007, bids were opened for nine sizes **d** padmount transformers, and **life-cycle costs** were evaluated (Life-cycle costs are the combined total purchase price plus cost of operation based on estimated power loss during the projected life of the transformer).

7 each 37.5kVA, 1-Ph	HEES Enterprises, Inc.	\$14,089.39
8 each 50kVA, 1-Ph	HEES Enterprises, Inc.	17,636.52
6 each 75kVA, 1-Ph	HEES Enterprises, Inc.	18,050.28
3 each 150kVA, 3-Ph	HEES Enterprises, Inc.	24,082.13
2 each 225kVA, 3-Ph, 208Y	Pauwels Transformen. Inc.	18,162.34
1 each 225kVA, 3-Ph. 480Y	Pauwels Transformers, Inc.	9,546.65
3 each 300kVA, 3-Ph	Pauwels Transformers, Inc.	32,273.28
1each 500kVA, 3-Ph	Pauwels Transformers, Inc.	15,765.98
2 each 1500kVA, 3-Ph	HEES Enterprises, Inc.	50,724.39
	• •	\$200.330.96

Proposals are also evaluated on the basis of compliance with equipment and bid specifications. Failure to comply with both may lead to disqualification of the bid. A summary of the bid evaluation is attached as Exhibit A. Some of the transformers are planned for use in a commercial development on Reynolds Ranch and other residential and commercial developments and upgrades within the City. Other transformers are to bring the number of stock transformers of different sizes to the required inventory level.

FISCAL IMPACT: Procurement cost is \$200,330.96

FUNDING: Account No. 160651

Kirk Evans, Budget Manager

George F Morrow Electric Utility Director

PREPARED BY: Demy Bucaneg, Jr., P.E., Manager, Engineering & Operations

APPROVED: / ______ City Manager

EXHIBIT A

Transformer Bid Evaluation					Bid	Opening:	July 11, 2007						
Padmount				Tax (factor):	1.0775		Primar	y Winding:	12,000 Volt, De	elta Connec	ted, 3-Pha	se	
				Loss \$/watt:	3.75			, ,	12,000 Grd Wye/6,930 Volt, 1-Phase				
July 11, 2007				Loss \$/watt:	1.25								
Bid Item 1: 37.5 kVA, 240/120 Volt, Sin	gle Phase Pad					Nι	mber of units:	7			28	>1.5	
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance	
Velidoi	Price \$	Price \$	w/tax \$		Loss (watts)		Loss value	Losses \$	Cost \$	(weeks)	(inches)	""" %	
	Files	File o	W/Lax p	LUSS (Walls)	LUSS (Walls)	LUSS Value	LUSS Value	Lusses 4	COSL	(weeks)	(inches)	/0	
Howard Industries, Inc.	2,421.00	16,947.00	18,260.39	85	449	2,231.25	3,928.75	6,160.00	24,420.39	6-8	24	1.728	
HEES Enterprises, Inc.		13,076.00	14,089.39				3,867.50	6,177.50		14-16	28		
Wesco Distribution, Inc.		17,283.00	18,622.43			2,152.50	4,033.75	6,186.25		30-40	24		
Pauwels Transformers, Inc.	No Bid	17 ,203.00	10,022.43	02	401	Z,102.00	4,000.70	0,100.23	24,000.00	30-40	24	'	
Central Moloney, Inc.	No Bid		-				-						
Central Moloney, Inc.	140 810												
Bid Item 2: 50 kVA, 240/120 Volt, Singl	e Phase Pad					Nι	mber of units:	8			28	>1.6	
	11.5	E	Б.	NI I I		N		0 1 6	1.6 0 1	D. II	11 : 11		
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance	
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%	
Howard Industries, Inc.	2,760.00	22,080.00	23,791.20	110	511	3,300.00	5,110.00	8,410.00	32,201.20	6-8	24	1.612	
HEES Enterprises, Inc.	2,786.00	16,368.00	17,636.52			3,030.00	5,800.00	8,830.00		14-16	28		
Wesco Distribution, Inc.		21,848.00	23,541.22				4,610.00	7,070.00		30-40	24		
Pauwels Transformers, Inc.	No Bid	21,040.00	23,341.22	02	401	2,400.00	4,010.00	7,070.00	30,011.22	30-40	24	1	
Central Moloney, Inc.	No Bid												
-													
Bid Item 3: 75 kVA, 240/120 Volt, Singl	e Phase Pad					Nι	mber of units:	6			28	>1.8	
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance	
Vendor	Price \$	Price \$			Loss (watts)		Loss value	Losses \$	Cost \$	(weeks)	(inches)	%	
Howard Industries, Inc.	3,651.00	21,906.00	23,603.72	149	634	3,352.50	4,755.00	8,107.50	31,711.22	6-8	24	1.68	
HEES Enterprises, Inc.	2,792.00		18,050.28	149		3,352.50	5,250.00	8,602.50		14-16	28		
Wesco Distribution, Inc.	3,254.00		21,037.11			2,677.50	5,230.60	8,595.00		30-40	24		
Pauwels Transformers, Inc.	No Bid	10,024.00	21,037.11	113	,05	2,011.00	017.30	0,000.00	23,032.11	30-40	24		
Central Moloney, Inc.	No Bid												
Central Micronery, Inc.	140 010											-	

Did been 4. 450 bVA 200V/420 V-14 Th	roo Dhaas Dad					h.i.	umber of units:	3			65	>2.0
Bid Item 4: 150 kVA, 208Y/120 Volt, Th	iree Phase Pad					INU	amber of units:	3			60	>2.0
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
					, ,					, ,	, ,	
Howard Industries, Inc.	9,163.00	27,489.00	29,619.40	272	1692	3,060.00	6,345.00	9,405.00	39,024.40	26-28	46	2.291
HEES Enterprises, Inc.	7,450.00	22,350.00	24,082.13	316	1537	3,555.00	5,763.75	9,318.75	33,400.88	38-41	49	3,600
Wesco Distribution, Inc.	8,843.00	26,529.00	28,585.00	335	1242	3,768.75	4,657.50	8,426.25	37,011.25	30-40	48	
Pauwels Transformers, Inc.	7,415.00	22,245.00	23,968.99	349	1597	3,926.25	5,988.75	9,915.00	33,883.99	34-36	52.1	2.510
Central Moloney, Inc.	No Bid											
Bid Item 5: 225 kVA, 208Y/120 Volt, Th	ree Phase Pad					Nu Nu	umber of units:	2			65	>3.5
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
Price Price	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Howard Industries, Inc.	10,984.00	21,968.00	23,670.52	432		3,240.00		9,007.50	32,678.02	26-28	51	
HEES Enterprises, Inc.	9,530.00	19,060.00	20,537.15	217		1,627.50	8,245.00	9,872.50	30,409.65	38-41	49	
Wesco Distribution, Inc.	10,522.00	21,044.00	22,674.91	412		3,090.00		9,772.50	32,447.41	30-40	56	
Pauwels Transformers, Inc.	8,428.00	16,856.00	18,162.34	458	2,688	3,435.00	6,720.00	10,155.00	28,317.34	34-36	52.1	3.740
Central Moloney, Inc.	No Bid											
Bid Item 6: 225 kVA, 480Y/277 Volt, Th	ree Phase Pad					Nι	umber of units:	1			65	>3.5
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
1011001	Price \$	Price \$	w/tax \$	=====	Loss (watts)			Losses \$	Cost \$	(weeks)	(inches)	%
	11100 \$	1 1100 ¥	TITUAN W	2000 (***4110)	2000 (114110)	2000 14140	2000 value	200000 \$	000. \$	(1100110)	(11101100)	70
Howard Industries, Inc.	11,284.00	11,284.00	12,158.51	453	2151	1,698.75	2,688.75	4,387.50	16,546.01	28-30	51	3.782
HEES Enterprises, Inc.	9,208.00	9,208.00	9,921.62	225	3355	843.75	4,193.75	5,037.50	14,959.12	38-41	49	3.900
Wesco Distribution, Inc.	10,571.00	10,571.00	11,390.25	387		1,451.25		3,995.00	15,385.25	30-40	56	
Pauwels Transformers, Inc.	8,860.00	8,860.00	9,546.65	415		1,556.25		4,593.75	14,140.40	34-36	52.1	3.660
Central Moloney, Inc.	No Bid											
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Bid Item 7: 300 kVA, 208Y/120 Volt, Th	ree Phase Pad					Ni.	umber of units:	3			65	5 >3.5
,							1		·			
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)) Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	
Howard Industries, Inc.	13,627.00		44,049.28						59,506.78			
HEES Enterprises, Inc.		34,938.00	37,645.70									
Wesco Distribution, Inc.		35,352.00	38,091.78									
Pauwels Transformers, Inc.		29,952.00	32,273.28	546	3251	6,142.50	12,191.25	18,333.75	50,607.03	34-36	52.1	1 3.650
Central Moloney, Inc.	No Bid											
Bid Item 8: 500 kVA, 208Y/120 Volt, Th	iree Phase Pad					Nı	umber of units:	1			75	5 >4.0
		1					1					
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$		Loss (watts)) Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	
Howard Industries, Inc.	19,073.00	19,073.00	20,551.16	754	4 4902	2 2,827.50	6,127.50	8,955.00	29,506.16	28-30	61	1 4.40
HEES Enterprises, Inc.	16,242.00		17,500.76									
Wesco Distribution, Inc.		17,721.00	19,094.38									
Pauwels Transformers, Inc.		14,632.00	15,765.98			3,093.75			24,902.23			
Central Moloney, Inc.	No Bid								1	1		
			1 (1	y V						
Bid Item 9: 1500 kVA, 480Y/277 Volt, T	hree Phase Pa	d				Nı	umber of units:	2			90) >5
	1111			** 1 al	1!	N. 1 al	1 1	2 1 -6	112 0 1-		11-1-1-4	
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery		Impedan
	Price \$	Price \$	w/tax \$	Loss (watts)) Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Howard Industries, Inc.	36,047.00	72,094.00	77,681.29	1604	12081	12,030.00	30,202.50	42,232.50	119,913.79	30-32	? 69	9 5.79
HEES Enterprises, Inc.	23,538.00		50,724.39	1654		12,405.00			88,546.89	38-41		
Wesco Distribution, Inc.		66,894.00	72,078.29			14,550.00			109,810.79			
Pauwels Transformers, Inc.		55,164.00	59,439.21			12,555.00			103,684.21	34-36	72.1	1 5.79
Central Moloney, Inc.	No Bid	-										
Total Cost:												
HEES Enterprises, Inc.			124,582.71			+			, — — — — — — — — — — — — — — — — — — —			
Pauwels Transformers, Inc.	+		75,748.25			+			,			
Fauweis Hallololliers, Ille.	+	1 7	\$ 200,330.96		-	+						+
1			A /UU.330.30 ·	1		1	1	()		1	1	

RESOLUTION NO. 2007-149

A RESOLUTION OF THE LODI CITY COUNCIL AWARDING THE BIDS FOR THE PURCHASE OF PADMOUNT TRANSFORMERS

WHEREAS, in answer to notice duly published in accordance with law and the order of this City Council, sealed bids were received and publicly opened on July 1, 2007, at 11:00 a.m. for the purchase of padmount transformers for the Electric Utility Department, described in the specifications therefore approved by the City Council on May 16, 2007; and

WHEREAS, said bids have been compared, checked, and tabulated and a report thereof filed with the City Manager as shown on Exhibit A attached; and

WHEREAS, the City Manager recommends the award of the bids for the various types and sizes of padmount transformers for the Electric Utility Department be made to the **bidder(s)** whose proposal and equipment meet City of Lodi specifications and whose transformers are expected to yield the lowest overall life-cycle costs, listed as follows:

7 each 37.5kVA, I-Ph	HEES Enterprises, Inc.	\$ 14,089.39
8 each 50kVA, I-Ph	HEES Enterprises, Inc.	\$ 17,636.52
6 each 75kVA, 1-Ph	HEES Enterprises, Inc.	\$ 18,050.28
3 each 150kVA, 3-Ph	HEES Enterprises, Inc.	\$ 24,082.13
2 each 225kVA, 3-Ph, 208Y	Pauwels Transformers, Inc.	\$ 18,162.34
1 each 225kVA, 3-Ph, 480Y	Pauwels Transformers, Inc.	\$ 9,546.65
3 each 300kVA, 3-Ph	Pauwels Transformers, Inc.	\$ 32,273.28
1 each 500kVA, 3-Ph	Pauwels Transformers, Inc.	\$ 15,765.98
2 each 1500kVA, 3-Ph	HEES Enterprises, Inc.	<u>\$ 50,724.39</u>
	•	\$200,330.96

NOW, THEREFORE, BE IT RESOLVED that the award of the bids for the purchase of padmount transformers for the Electric Utility Department be and the same is hereby awarded to the lowest responsible bidders, as shown above, in the total amount of \$200,330.96.

Dated: August 1,2007

I hereby certify that Resolution No. 2007-149 was passed and adopted by the City Council of the City of Lodi in a regular meeting held August 1,2007, by the following vote:

AYES: COUNCIL MEMBERS - Hansen, Hitchcock, Katzakian, Mounce, and

Mayor Johnson

NOES: COUNCIL MEMBERS - None

ABSENT: COUNCIL MEMBERS - None

ABSTAIN: COUNCIL MEMBERS - None

RANDI JOHL City Clerk

EXHIBIT A

Transformer Bid Evaluation		Astronomy	İ j		manusch in the second								
Padmount			A CONTRACTOR OF THE CONTRACTOR	Tax (factor):	1.0775		Primary Winding: 1		12,000 Volt, Delta Connected, 3-Phase				
			de	Loss \$/watt:	3.75				12,000 Grd Wy				
July 11, 2007			december of the second second	Loss \$/watt:	1.25								
Bid Item 1: 37.5 kVA, 240/120 Volt, Single Pha	nse Pad					Nu	mber of units:	7			28	>1.5	
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance	
	Price \$	Price \$	w/tax \$	The state of the s	Loss (watts)	manage management of the community	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%	
Howard Industries, Inc.	.421.00	16,947.00	18,260.39	85	449	2,231.25	3,928.75	6,160.00	24,420.39	6-8	. 24	1.728	
	868.00	13,076.00	14,089.39	88	442		3,867.50	6,177.50	20,266.89	14-16	28	1.500	
	469.00	17,283.00	18,622.43	82		2,152.50	4,033.75	6,186.25	24,808.68	30-40	24		
Pauwels Transformers, Inc.	No Bid					4							
Central Moloney, Inc.	No Bid						A A CONTRACTOR AND A CO		Addinguised relations of the disease of the control				
Bid Item 2: 50 kVA, 240/120 Volt, Single Phas	e Pad					Nu	mber of units:	8			28	>1.6	
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance	
F	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%	
Howard Industries, Inc.	2,760.00	22,080.00	23,791.20	110			5,110.00	8,410.00		6-8	24		
	2,046.00	16,368.00	17,636.52	101	580		5,800.00	8,830.00		14-16	28		
Wesco Distribution, Inc.	2,731.00	21,848.00	23,541.22	82	461	2,460.00	4,610.00	7,070.00	30,611.22	30-40	24		
Pauwels Transformers, Inc.	No Bid									****		magnines to a local costs demokrit - requiremental and applications	
Central Moloney, Inc.	No Bid												
Bid Item 3: 75 kVA, 240/120 Volt, Single Phas	e Pad					Nu	ımber of units:	6			28	3 >1.8	
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance	
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%	
Howard Industries, Inc.	3,651.00		23,603.72	A Company of the Comp		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,755.00	8,107.50		6-8	24		
The state of the s	2,792.00		18,050.28				5,250.00	8,602.50		14-16	28		
Wesco Distribution, Inc.	3,254.00		21,037.11	119	789	2,677.50	5,917.50	8,595.00	29,632.11	30-40	24		
Pauwels Transformers, Inc.	No Bid												
Central Moloney, Inc.	No Bid												

Bid Item 4: 150 kVA, 208Y/120 Volt, Three Ph	ase Pad	eroon generally of register Miller We resident Annual Com-				Nu	mber of units:	3	Property And Annual Administration of the Commence of the Comm		65	>2.0
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Howard Industries, Inc.	9,163.00	27,489.00	29,619,40	272	1692	3,060.00	6,345.00	9,405.00	39,024.40	26-28	46	2.291
HEES Enterprises, Inc.	7,450.00	22,350.00	24,082,13	316	1537	3,555.00	5,763.75	9,318.75	33,400.88	38-41	49	3.600
Wesco Distribution, Inc.	8,843.00	26,529.00	28,585,00	335	1242	3,768,75	4,657.50	8,426.25	37,011.25	30-40	48	
Pauwels Transformers, Inc.	7,415.00	22,245.00	23,968.99	349	1597	3,926.25	5,988.75	9,915.00	33,883,99	34-36	52.1	2.510
Central Moloney, Inc.	No Bid											
Bid Item 5: 225 kVA, 208Y/120 Volt, Three Ph	ase Pad					Nu	ımber of units:	2			65	>3.5
Vendor	Unit	Extended	Price	No Load		No. Lord	Load	Cost of	Life Cuele	Delivery	Uninh	l-on-don-
The same and the s	Price \$	Price \$	w/tax \$	AND THE RESIDENCE OF THE PARTY	Loss (watts)	No Load Loss value	Loss value	Losses \$	Life Cycle Cast \$	(weeks)	Height (inches)	Impedance %
Howard Industries, Inc. 1	0.984.00	21,968.00	23,670,52	432	2307	3.240.00	5,767.50	9.007.50	32,678,02	26-28	51	3.605
	9,530.00		20,537,15			1,627.50	Same and the same	9.872.50	30,409.65	38-41	49	3.900
	0,522.00	The state of the s	22,674.91	And the second s	According to the second	Same of any introductivistic and any	Annual Committee of the	9,772.50	32,447.41	and the second s	56	
Pauwels Transformers, Inc.	8,428.00	16,856.00	18,162.34	458	A Company of the Comp		6,720.00	10,155.00	28,317.34	34-36	52.1	3.740
Central Moloney, Inc.	No Bid		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								ili, ta estinenen (annomentakia andisakkaana, ppe	
Bid Item 6: 225 kVA, 480Y/277 Volt, Three Pl	iase Pad					Nu	ımber of units:	1			65	>3.5
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Howard Industries, Inc. 1	1,284.00		12,158.51		A CONTRACTOR OF THE PROPERTY OF THE PARTY OF	1,698.75		4,387.50	16,546.01	28-30	51	3.782
HEES Enterprises, Inc.	9,208.00	9,208.00	9,921.62	225	3355	843.75	Annual Company of the	5,037.50	14,959.12	Sales and the sales of the sale	49	3.900
Wesco Distribution, Inc.	0,571.00	10,571.00	11,390.25	387	2035	1,451.25		3,995.00	15,385.25	 If you have probables 		A contract of the contract of
	8,860.00 No Bid		9,546,65	415	2430	1,556.25	3,037.50	4,593.75	14,140.40	34-36	52.1	3.660

Bid Item 7: 300 kVA, 208Y/120 Volt, Three	Phase Pad					Nu	mber of units:	3			65	>3.5
			A A Million Laboratoria in Communication and Communication (Communication Communication Communicatio									
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Howard Industries, Inc.	13,627.00	40,881.00	44,049.28	E4E	0.77	E 700 7E	0.000.75	4F 4F9 F6				
HEES Enterprises, Inc.	11,646.00		37,645.70	515	2577	5,793.75	9,663.75	15,457.50	59,506.78	26-28	51	
Wesco Distribution, Inc.	11,784.00		38,091.78	362		4,072.50	10,586.25	14,658.75	52,304.45	38-41	57	
Pauwels Transformers, Inc.	9,984.00		32,273.28			5,332.50	9,375.00	14,707.50	52,799.28	30-40	52	
Central Moloney, Inc.	No Bid		32,213.20	546	3251	6,142.50	12,191.25	18,333.75	50,607.03	34-36	52.1	3.650
Bid Item 8: 500 kVA, 208Y/120 Volt, Three	Phase Pad				propriet to the second constitution of the second s	NI.		1	er anderson i de de servicio de la Albanda de Santonia y en Albanda inservicio de Albanda de Santonia	Break autation mo. 14 o 1 montano 1 de mujerapa, que		
214 Koll 31 330 KWA 2001/123 FOR, 111136	i iidse i du					NU	mber of units:	1			75	>4.0
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	Loss (watts)	Loss (watts)	Loss value	Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Howard Industries, Inc.	19,073.00	19,073.00	20,551.16	754	4902	2,827.50	6,127,50	8,955.00	29,506,16	28-30	61	4.401
HEES Enterprises, Inc.	16,242.00		17,500.76			1,893.75	Z,735.00	9.628.75	27,129.51	38-41	49	
Wesco Distribution, Inc.	17,721.00	17,721.00	19,094.38					9,193.75	28,288.13	30-40	. 60	and the second s
Pauwels Transformers, Inc. Central Moloney, Inc.	14,632.00 No Bid	14,632.00	15,765.99	3.6	4 834	A Comment of the Comm	6.042.50	9,136.25	24,902.23	34-36	58.1	
Bid Item 9: 1500 kVA, 480Y/277 Volt, Thre	e Phase Pa	d				Nu	mber of units:	2			90	>5.3
Vendor	Unit	Extended	Price	No Load	Load	No Load	Load	Cost of	Life Cycle	Delivery	Height	Impedance
	Price \$	Price \$	w/tax \$	arrestamento de la	Loss (watts)		Loss value	Losses \$	Cost \$	(weeks)	(inches)	%
Howard Industries, Inc.	36,047.00	72,094.00	77,681.29	1604	12081	12,030.00	30,202.50	42,232.50	119,913,79	30-32	69	5.799
HEES Enterprises, Inc.	23,538.00	47,076.00	50,724.39	1654		12,405.00	25,417.50	37,822.50	88,546.89	38-41	63	
Wesco Distribution, Inc.	33,447.00	66,894.00	72,078.29	1940		14,550.00	23,182.50	37,732.50	109,810.79	30-40	61	
Pauwels Transformers, Inc.	27,582.00	55,164.00	59,439.21	1674		12,555.00	31,690.00	44,245.00	103,684.21	34-36	72.1	5.750
Central Moloney, Inc.	No Bid											
		A comment						Vertical Contraction				***
Total Cost:	managaran perimbahan dianphi iburu						***	***************************************				
HEES Enterprises, Inc.			124,582.71									
Pauwels Transformers, Inc.			75,748.25		and the second and th	promining productions and consequent	angian wax individual an anno alam it me common modelle					
		\$	200,330.96									